

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10. (Canceled)

11. (Currently Amended) An air conditioning system having an indoor unit, an outdoor unit, and a system controller for controlling said indoor unit or said outdoor unit and arranged to execute communications between said indoor unit and said outdoor unit as transmitting a signal via a power line supplying electric power, comprising:

a leased communication line for connecting said outdoor unit with said system controller;

high-speed communication means and an adapter provided in said indoor unit and being connected through a high-speed communication line;

said adapter being connected with said power line;

leased communication means provided in said outdoor unit being connected with said leased communication line; and

a bridge for connecting said leased communication line with said power line; and

a blocking filter disposed in said power line to said indoor unit;

wherein said leased communication line is a wire communication line and control information is exchanged mutually between said indoor unit, said outdoor unit and said system controller.

12. (Previously Presented) An air conditioning system as claimed in claim 11, wherein said power line is arranged to supply electric power to said indoor unit through a single-phase power line and to said outdoor unit through a three-phase power line, said single-phase power line being connected with said three-phase power line through said leased communication line.

13. (Original) An air conditioning system as claimed in claim 11, wherein said bridge provides protocol converting means.

14. (Original) An air conditioning system as claimed in claim 11, wherein said bridge is served to pass only data oriented for said indoor unit being connected with said power line from said leased communication line to said power line.

15. (Withdrawn) An air conditioning system having a plurality of indoor units, at least one outdoor unit, and a system controller for controlling said indoor units or outdoor unit, said system comprising:

a leased communication line for connecting said at least one outdoor unit with said system controller;

leased communication means provided in said at least one outdoor unit and being connected with said leased communication line;

a first power line supplying electric power for said at least one outdoor unit;

second power lines supplying electric power for said indoor units;

power line communication means provided in each of said indoor units and being connected with said second power lines; and

bridges for connecting said leased communication line with said second power lines; wherein

said indoor units are divided into plural groups in every one or more indoor units,

said indoor units in the same group share the same second power line,

said second power line is branched for each group having a blocking filter connected to the power line communication means of said indoor unit, and

control information is exchanged mutually among said indoor units, said at least one outdoor unit and said system controller.

16. (Withdrawn) An air conditioning system as claimed in claim 15, wherein

said blocking filter is arranged to avoid transmission of control information among said second power lines belonging to different indoor unit groups.

17. (Withdrawn) An air conditioning system as claimed in claim 15, wherein

said bridges are arranged one-by-one in said every indoor unit group, and each bridge transmits control information to said indoor units in one's own group via said second power line, only if said control information from said at least one outdoor unit or said system controller involves the address of one's own group.

18. (Withdrawn) An air conditioning system as claimed in claim 15, wherein said second power lines are arranged to supply electric power to said indoor units through single-phase power lines, and said first power line is arranged to supply electric power to said at least one outdoor unit through a three-phase power line.

19. (Withdrawn) An air conditioning system as claimed in claim 15, wherein each of some indoor units in said indoor units have an impedance upper at an input side of the power line for an ac-dc converter involved in each of said some indoor units.

20. (Withdrawn) An air conditioning system having a plurality of indoor units, at least one outdoor unit, and a system controller for controlling said indoor units or outdoor unit, comprising:

a leased communication line for connecting said at least one outdoor unit with said system controller;

leased communication means provided in said outdoor unit and being connected with said leased communication line;

first power line supplying electric power for said at least one outdoor unit;

second power lines supplying electric power for said indoor units;

power line communication means provided in each of said indoor units and being connected with said second power lines;

bridges for connecting said leased communication line with said second power lines; wherein

said indoor units divided into plural groups in every several units,

said indoor units in the same group share the same second power line,

said second power line in each group has a blocking filter connected to the power line communication means of said indoor units, and

control information is exchanged mutually between said at least one outdoor unit and said bridges via said leased communication line, and between said bridges and said indoor units via said second power lines.

21. (Withdrawn) An air conditioning system as claimed in claim 20, wherein said blocking filter is arranged to avoid transmission of control information among said second power lines belonging to different indoor unit groups.

22. (Withdrawn) An air conditioning system as claimed in claim 20, wherein said bridges are arranged one-by-one in said every indoor unit group, and

each bridge transmits control information to said indoor units in one's own group via said second power line, only if said control information from said at least one outdoor unit of said system controller involves an address of one's own group.

23. (Withdrawn) An air conditioning system as claimed in claim 20, wherein

said second power lines are arranged to supply electric power to said indoor units through single-phase power lines, and said first power line is arranged to supply electric power to said at least one outdoor unit through a three-phase power line.

24. (Withdrawn) An air conditioning system as claimed in claim 20, wherein each of some indoor units in said indoor units have an impedance upper at an input side of the power line for an ac-dc converter involved in each of said some indoor units.